

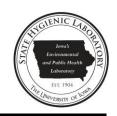
Iowa Influenza Surveillance Network (IISN)

Influenza-like Illness (ILI) and Other Respiratory Viruses

Weekly Activity Report



All data presented in this report are provisional and may change as additional reports are received



Percent of outpatient visits for ILI ¹	0.31% (baseline 1.7%)
Percent of influenza rapid test positive	1.7% (5/238)
Percent of RSV rapid tests positive	0.0% (0/54)
Percent school absence due to illness*	1.92%
Number of schools with ≥10% absence due to illness	0
Influenza-associated hospitalizations**	1/1,592 inpatients surveyed
Influenza-associated pediatric mortality	0

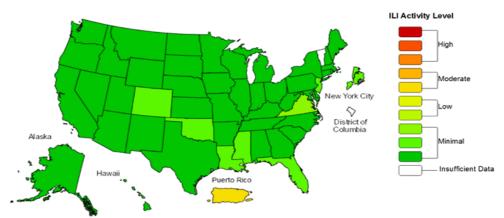
Iowa Influenza Geographic Spread ²					
No Activity					
Sporadic					
Local					
Regional					
Widespread					
² This is based on CDC's activity estimates definition <u>www.cdc.gov/flu/weekly/overview.htm</u>					

Iowa statewide activity summary:

Influenza activity in Iowa is low. For this reporting week, the State Hygienic Laboratory confirmed two Flu A (H3) cases. The proportion of outpatient visits due to influenza-like illness (ILI) was 0.31 percent which is well below the regional baseline. One influenza-associated hospitalization was reported from sentinel hospitals. No schools reported 10 percent or greater absenteeism due to illness. In addition, five cases of adenovirus, seven cases of parainfluenza virus type 2, and 30 cases of rhinovirus/enterovirus were reported to IDPH.

National activity summary - www.cdc.gov





During week 41, the following influenza activity was reported: Widespread influenza activity was reported by Guam. Local influenza activity was reported by Puerto Rico and four states (Florida, New Hampshire, North Dakota, and Virginia). Sporadic influenza activity was reported by the District of Columbia and 36 states (Alabama, Alaska, Arkansas, California, Colorado, Connecticut, Delaware, Georgia, Hawaii, Idaho, Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Nebraska, New Jersey, New Mexico, New York, North Carolina, Ohio, Oregon, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Washington, West Virginia, Wisconsin, and Wyoming). No influenza activity was reported by the U.S. Virgin Islands and 10 states (Arizona, Illinois, Kansas, Massachusetts, Mississippi, Missouri, Montana, Oklahoma, Nevada, and Rhode Island).

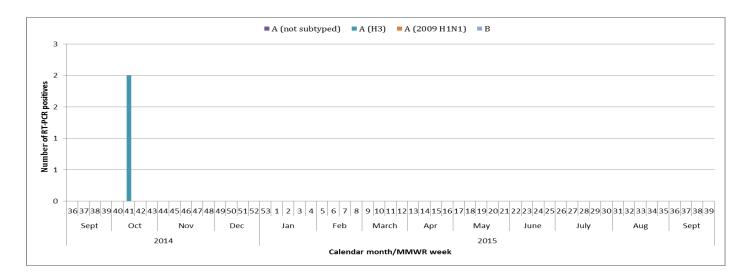
International activity summary - www.who.int

Globally, the southern hemisphere influenza season seems to be coming to an end, with still high activity in Oceania. Elsewhere influenza activity remained low, except for some tropical countries in the Americas. In Europe and North America, influenza activity remained at inter-seasonal levels. In tropical countries of the Americas, influenza B co-circulated with respiratory syncytial virus (RSV). In Africa and western Asia, influenza activity was low. In eastern Asia, influenza activity in most countries remained low or decreased following influenza A(H3N2) activity in August and September. In the southern hemisphere, influenza activity decreased in most countries. In the temperate zone of South America, influenza-like illness (ILI) decreased and was still mainly associated with RSV. Influenza A(H3N2) virus was the most detected influenza virus. In Australia and New Caledonia, the influenza season continued with high activity associated with A(H1N1)pdm09 and A(H3N2) viruses. ILI activity increased in several of the Pacific Islands. Based on FluNet reporting (as of 2 October 2014, 11:15 UTC), during weeks 37 to 38 (07/09/2014 to 20/09/2014), National Influenza Centres (NICs) and other national influenza laboratories from 50 countries, areas or territories reported data. The WHO GISRS laboratories tested more than 21796 specimens. 1540 were positive for influenza viruses, of which 1049 (68.1 percent) were typed as influenza A and 491 (31.9 percent) as influenza B. Of the subtyped influenza A viruses, 289 (38.9 percent) were influenza A(H1N1)pdm09 and 454 (61.1 percent) were influenza A(H3N2). Of the characterized B viruses, 52 (96.3 percent) belonged to the B-Yamagata lineage and 2 (3.7 percent) to the B-Victoria lineage.

<u>Laboratory surveillance program:</u>

The State Hygienic Laboratory (SHL) is the primary lab for influenza testing and reporting in Iowa. SHL reports the number of tests performed and the type and strain of positive tests to the influenza surveillance network several times every week. In addition, SHL surveys clinical and reference labs for the number of rapid-antigen tests performed and number positive weekly. This report also includes the positive non-influenza virus tests reported from SHL, the Dunes Medical Laboratories at Mercy Medical Center in Sioux City, and Iowa Methodist Medical Center in Des Moines.

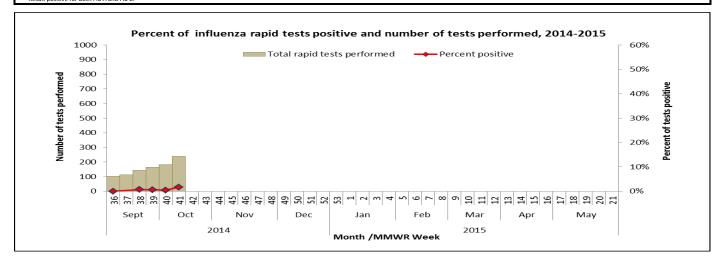
	CURRENT WEEK - MMWR WEEK 41					YEAR TO DATE (9/1/14 – Present Week)							
	Flu A				Equiv/ Flu A								
Age	A (2009	A (H3)	A(H3N2)	Subtype		Indeter		A (2009	A (H3)	A(H3N2)	Subtype	Flu B	Neg
Group	H1N1)	A (H3)	variant	Pending	Flu B	minate	Neg	H1N1)	A (H3)	variant	Pending		
0-4	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	1(8%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	4(9%)
5-17	0(0%)	1(50%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	1(50%)	0(0%)	0(0%)	0(0%)	4(9%)
18-24	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	6(46%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	17(39%)
25-49	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	2(15%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	9(20%)
50-64	0(0%)	1(50%)	0(0%)	0(0%)	0(0%)	0(0%)	1(8%)	0(0%)	1(50%)	0(0%)	0(0%)	0(0%)	7(16%)
>64	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	3(23%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	3(7%)
Total	0	2	0	0	0	0	13	0	2	0	0	0	44

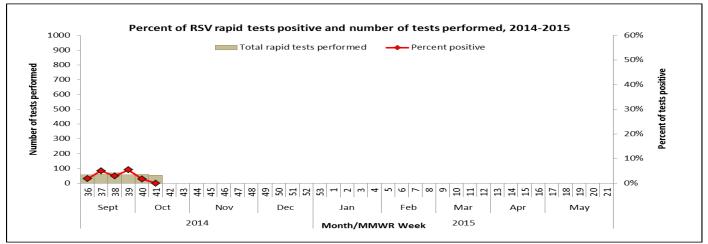


Rapid influenza and RSV tests:

Table 2: Percent of influenza rapid tests positive and number of tests performed by region for the present week									
DECION*		RAPID	ANTIGEN INFLUE	RAPID ANTIGEN RSV TESTS					
REGION*	Tested	Flu A	Flu B	Undefined	% Positive	Tested	Positive	% Positive	
Region 1	24	0	0	0	0.0	2	0	0.0	
Region 2	6	1**	1**	0	16.7	5	0	0.0	
Region 3	15	0	0	0	0.0	9	0	0.0	
Region 4	22	0	0	0	0.0	5	0	0.0	
Region 5	25	0	0	0	0.0	6	0	0.0	
Region 6	146	1	2	2	2.1	27	0	0.0	
Total	238	2	3	0	1.7	54	0	0.0	

*Region 1- Boone, Calhoun, Carroll, Dallas, Greene, Grundy, Hamilton, Hardin, Jasper, Marshall, Polk, Poweshiek, Story, Tama, Warren, Webster; Region 2- Allamakee, Bremer, Butler, Cerro Gordo, Chickasaw, Emmet, Fayette, Floyd, Franklin, Hancock, Howard, Humboldt, Kossuth, Mitchell, Winneshiek, Worth, Wright; Region 3- Buena Vista, Cherokee, Clay, Crawford, Dickinson, Ida, Lyon, Monona, O'Brien, Osceola, Palo Alto, Plymouth, Pocahontas, Sac, Sioux, Woodbury; Region 4- Adairs, Adams, Audubon, Cass, Clarke, Decatur, Fremont, Guthrie, Harrison, Madison, Mills, Montgomery, Page, Pottawattamie, Ringgold, Shelby, Taylor, Union; Region 5- Appanoose, Davis, Des Moines, Henry, Jefferson, Keokuk, Lee, Louisa, Lucas, Mahaska, Marrion, Monroe, Muscatine, Van Buren, Wapello, Washington, Wayne; Region 6- Benton, Black Hawk, Buchanan, Cedar, Clayton, Clinton, Delaware, Dubuque, Iowa, Jackson, Johnson, Jones, Linn, Scott.





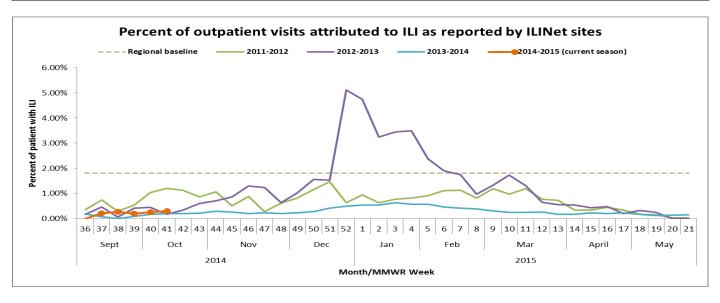
Non-influenza respiratory virus:

Viruses	Current Week	Cumulative (9/1/14 – Present Week)		
Adenovirus	5	15		
Parainfluenza Virus Type 1	0	0		
Parainfluenza Virus Type 2	7	19		
Parainfluenza Virus Type 3	0	0		
Parainfluenza Virus Type 4	0	1		
Rhinovirus/Enterovirus	30	196		
Respiratory syncytial virus (RSV)	0	1		
Human metapneumovirus (Hmpv)	0	0		
Total	42	232		

Outpatient health care provider surveillance program (ILINet)

Outpatient health care providers who participate in the ILINet (a national influenza surveillance program) report the number of patients seen with influenza-like illness and the total number of patient visits each week. This system is a key part of lowa's influenza surveillance. Iowa health care providers interested in joining this surveillance program should contact Kemi Oni at 515-725-2136 or Oluwakemi.oni@idph.iowa.gov for more information.

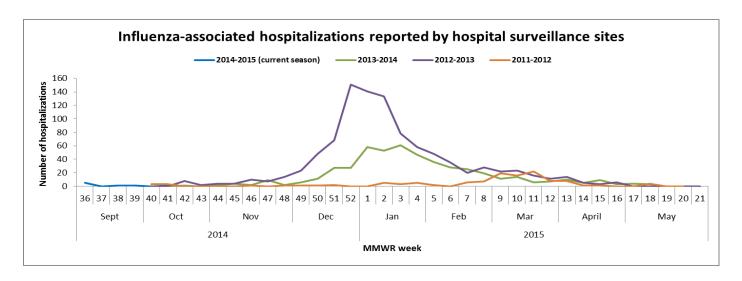
Table 4: Outpatient visits for influenza-like illness (ILI) – past 3 weeks									
Week	%ILI	Total ILI	Age 0-4	Age 5-24	Age 25-49	Age 50-64	Age >64		
Week 39, ending Sept 27	0.19	60	19	33	6	2	0		
Week 40, ending Oct 4	0.25	81	22	51	4	3	1		
Week 41, ending Oct 11	0.31	97	24	57	10	4	2		



Influenza-associated hospitalizations

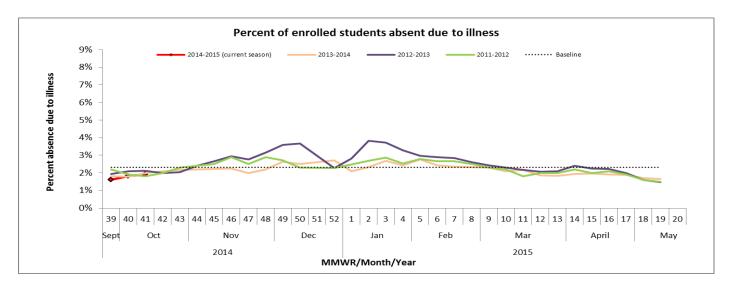
Sentinel hospitals that participate in IISN voluntarily track and report the number of influenza-associated hospitalizations and the total number of inpatients each week.





School surveillance program

Sentinel schools that participate in IISN voluntarily track and report absence due to all illness (including non-influenza illnesses) and the total enrollment each week.



Other resources

Neighboring states' influenza inforamtion:

Illinois: http://www.idph.state.il.us/flu/surveillance.htm

Minnesota: www.health.state.mn.us/divs/idepc/disease/flu/stats/

Missouri: http://health.mo.gov/living/healthcondiseases/communicable/influenza/reports.php

South Dakota: http://doh.sd.gov/diseases/infectious/flu/

Wisconsin: www.dhs.wisconsin.gov/communicable/influenza/surveillance.htm